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Yue-Hong Chou;
Vehicle Navigation and Information Systems Conference, 1995. Proceedings. In
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Pages:352 - 359

[Abstract]   [PDF Full-Text (712 KB)]   IEEE CNF

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2 **Tuning of audio, video and data applications over ATM**
Hetzer, D.; Miloucheva, I.; Pickard, W.; Kauschke, U.;
Computer Communications and Networks, 1999. Proceedings. Eight International
Conference on , 11-13 Oct. 1999
Pages:223 - 226

[Abstract]   [PDF Full-Text (324 KB)]   IEEE CNF

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3 **Transport protocols for Internet-compatible satellite networks**
Henderson, T.R.; Katz, R.H.;
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1999
Pages:326 - 344

[Abstract]   [PDF Full-Text (252 KB)]   IEEE JNL

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4 **Optimizing a "content-aware" load balancing strategy for shared Web
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Modeling, Analysis and Simulation of Computer and Telecommunication Systems,
2000. Proceedings. 8th International Symposium on , 29 Aug.-1 Sept. 2000
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5 Size-based adaptive bandwidth allocation: optimizing the average QoS for elastic flows
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INFOCOM 2002. Twenty-First Annual Joint Conference of the IEEE Computer and Communications Societies. Proceedings. IEEE , Volume: 2 , 23-27 June 2002
Pages:657 - 666 vol.2

[Abstract]   [PDF Full-Text (314 KB)]   **IEEE CNF**

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6 Memory design and exploration for low power, embedded systems
Wen-Tsong Shiue; Chakrabarti, C.;
Signal Processing Systems, 1999. SiPS 99. 1999 IEEE Workshop on , 20-22 Oct. 1999
Pages:281 - 290

[Abstract]   [PDF Full-Text (508 KB)]   **IEEE CNF**

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7 Techniques for developing and measuring high performance Web servers over high speed networks
Hu, J.C.; Mungee, S.; Schmidt, D.C.;
INFOCOM '98. Seventeenth Annual Joint Conference of the IEEE Computer and Communications Societies. Proceedings. IEEE , Volume: 3 , 29 March-2 April 1998
Pages:1222 - 1231 vol.3

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8 A proportional-delay DiffServ-enabled Web server: admission control and dynamic adaptation
Lee, S.C.M.; Lui, J.C.S.; Yau, D.K.Y.;
Parallel and Distributed Systems, IEEE Transactions on , Volume: 15 , Issue: 5 , May 2004
Pages:385 - 400

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9 Bandwidth estimation: metrics, measurement techniques, and tools
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Cherkasova, L.; Phaal, P.;
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Williamson, C.L.;
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12 Optimal dynamic scheduling in Jackson networks
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[Abstract]   [PDF Full-Text (720 KB)]   **IEEE JNL**

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13 TCP performance over a contention based wireless multi-hop network
Dimarogonas, J.; Snyder, M.D.; Barsoum, Y.;
Wireless Communications and Networking Conference, 2000. WCNC. 2000
IEEE , Volume: 2 , 23-28 Sept. 2000
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14 A self-organizing scheme for cache consistency
Xu Du; Chun Tung Chou; Zongkai Yang; Wenqing Cheng; Jiaqing Huang;
Telecommunications, 2003. ICT 2003. 10th International Conference on , Volume:
1 , 23 Feb.-1 March 2003
Pages:462 - 468 vol.1

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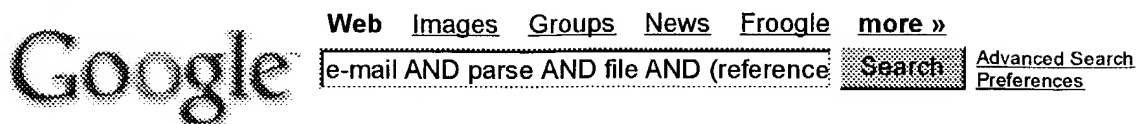
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15 Storage area network applications
DeCusatis, C.;
Optical Fiber Communication Conference and Exhibit, 2002. OFC 2002 , 17-22
March 2002
Pages:443 - 444

[Abstract]   [PDF Full-Text (306 KB)]   **IEEE CNF**

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... test [^ Error: failed to **parse** dtd **file** ... Error: failed to sign **file** "resum_caf_invoice_10.xml ... regards
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... a mail message from STDIN (using a **reference** to an ... where print_body also takes a **file**
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... Select this check box to receive error reports by **email**. ... the date format independent
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1 WebExpress: a client/intercept based system for optimizing Web browsing in a wireless environment   ▰
Barron C. Housel, George Samaras, David B. Lindquist
December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4

Full text available: ▦ pdf(338.35 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper describes an application model and software technology that makes it possible to run World Wide Web applications in wide area wireless networks. Web technology in conjunction with today's mobile devices (e.g., laptops, notebooks, personal digital assistants) and the emerging wireless technologies (e.g., digital cellular, packet radio, CDPD) offer the potential for unprecedented access to data and applications by mobile workers. Yet, the limited bandwidth, high latency, high cost, ...

2 Papers: mmdump: a tool for monitoring internet multimedia traffic   ▰
Jacobus van der Merwe, Ramón Cáceres, Yang-hua Chu, Cormac Sreenan
October 2000 **ACM SIGCOMM Computer Communication Review**, Volume 30 Issue 5

Full text available: ▦ pdf(1.14 MB)   Additional Information: full citation, abstract, references, citings

Internet multimedia traffic is increasing as applications like streaming media and packet telephony grow in popularity. It is important to monitor the volume and characteristics of this traffic, particularly because its behavior in the face of network congestion differs from that of the currently dominant TCP traffic. To monitor traffic on a high-speed link for extended periods, it is not practical to blindly capture all packets that traverse the link. We present *mmdump*, a tool that parse ...

3 A unified header compression framework for low-bandwidth links   ▰
Jeremy Lilley, Jason Yang, Hari Balakrishnan, Srinivasan Seshan
August 2000 **Proceedings of the 6th annual international conference on Mobile computing and networking**
Full text available: ▦ pdf(1.35 MB)   Additional Information: full citation, abstract, references, index terms

Compressing protocol headers has traditionally been an attractive way of conserving bandwidth over low-speed links, including those in wireless systems. However, despite the growth in recent years in the number of end-to-end protocols beyond TCP/IP, header compression deployment for those protocols has not kept pace. This is in large part due to complexities in implementation, which often requires a detailed knowledge of kernel internals, and a lack of a common way of pursuing the general p ...

4 The state of the art in locally distributed Web-server systems   ▰

Valeria Cardellini, Emiliano Casalicchio, Michele Colajanni, Philip S. Yu
June 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 2

Full text available: pdf(1.41 MB)   Additional Information: full citation, abstract, references, citings, index terms

The overall increase in traffic on the World Wide Web is augmenting user-perceived response times from popular Web sites, especially in conjunction with special events. System platforms that do not replicate information content cannot provide the needed scalability to handle large traffic volumes and to match rapid and dramatic changes in the number of clients. The need to improve the performance of Web-based services has produced a variety of novel content delivery architectures. This article w ...

Keywords: Client/server, World Wide Web, cluster-based architectures, dispatching algorithms, distributed systems, load balancing, routing mechanisms

5 Web Performance Optimization: Cluster-based online monitoring system of web traffic
Yun Mao, Kang Chen, Dongsheng Wang, Weimin Zheng
November 2001 **Proceeding of the third international workshop on Web information and data management**

Full text available: pdf(453.72 KB)   Additional Information: full citation, abstract, references, index terms

Web traffic has been increasing and evolving rapidly in recent years. It is important to measure the volume and characteristic of such dominant traffic to understand large-scale user access pattern and analyze performance of Web applications. Among the common methods of Web measurements, the passive way using packet monitoring is more advantageous since it provides comprehensive information and is transparent to end-users. However, the throughput of current packet monitoring system is limited by ...

6 Performance issues in WWW servers
Erich Nahum, Tsipora Barzilai, Dilip D. Kandlur
February 2002 **IEEE/ACM Transactions on Networking (TON)**, Volume 10 Issue 1

Full text available: pdf(199.21 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper evaluates techniques for improving operating system and network protocol software support for high-performance World Wide Web servers. We study approaches in three categories: i.e., new socket functions, per-byte optimizations, and per-connection optimizations. We examine two proposed socket functions, i.e., acceptex( ) and send_file ( ), comparing send_file( )'s effectiveness with a combination of mmap( ) and writev( ). We show how send_file( ) provides the necessary semantic support ...

Keywords: HTTP, TCP, network server, performance

7 A pseudo-machine for packet monitoring and statistics
R. T. Braden
August 1988 **ACM SIGCOMM Computer Communication Review , Symposium proceedings on Communications architectures and protocols**, Volume 18 Issue 4

Full text available: pdf(962.06 KB)   Additional Information: full citation, abstract, references, citings, index terms

This paper concerns the design of a flexible and efficient packet monitoring program for analyzing traffic patterns and gathering statistics on a packet network. This monitor operates in real time, using an analyzer which is an interpretive pseudo-machine driving object-oriented data collection programs. The pseudo-program for the interpreter is "compiled" from configuration commands written in a monitoring control language.

8
Deriving traffic demands for operational IP networks: methodology and experience

Anja Feldmann, Albert Greenberg, Carsten Lund, Nick Reingold, Jennifer Rexford, Fred True
June 2001 **IEEE/ACM Transactions on Networking (TON)**, Volume 9 Issue 3

Full text available: pdf(212.92 KB)   Additional Information: full citation, abstract, references, citings, index terms

Engineering a large IP backbone network without an accurate network-wide view of the traffic demands is challenging. Shifts in user behavior, changes in routing policies, and failures of network elements can result in significant (and sudden) fluctuations in load. In this paper, we present a model of traffic demands to support traffic engineering and performance debugging of large Internet Service Provider networks. By defining a traffic demand as a volume of load originating from an ingres ...

Keywords: Internet, measurement, routing, traffic engineering

9 Fast detection of communication patterns in distributed executions
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Full text available: pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

10 Industry track papers: Learning nonstationary models of normal network traffic for detecting novel attacks
Matthew V. Mahoney, Philip K. Chan
July 2002 **Proceedings of the eighth ACM SIGKDD international conference on Knowledge discovery and data mining**
Full text available: pdf(1.12 MB)   Additional Information: full citation, abstract, references, citings, index terms

Traditional intrusion detection systems (IDS) detect attacks by comparing current behavior to signatures of known attacks. One main drawback is the inability of detecting new attacks which do not have known signatures. In this paper we propose a learning algorithm that constructs models of normal behavior from attack-free network traffic. Behavior that deviates from the learned normal model signals possible novel attacks. Our IDS is unique in two respects. First, it is nonstationary, modeling pr ...

11 FIRE: flexible Intra-AS routing environment
Craig Partridge, Alex C. Snoeren, W. Timothy Strayer, Beverly Schwartz, Matthew Condell, Isidro Castiñeyra
August 2000 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Applications, Technologies, Architectures, and Protocols for Computer Communication**, Volume 30 Issue 4
Full text available: pdf(107.75 KB)   Additional Information: full citation, abstract, references, index terms

Current routing protocols are monolithic, specifying the algorithm used to construct forwarding tables, the metric used by the algorithm (generally some form of hop-count), and the protocol used to distribute these metrics as an integrated package. The Flexible Intra-AS Routing Environment (FIRE) is a link-state, intra-domain routing protocol that decouples these components. FIRE supports run-time-pro- grammable algorithms and metrics over a secure link-state distribution protocol. By allow ...

12 Special issue on prototypes of deductive database systems: The aditi deductive database system

Jayen Vaghani, Kotagiri Ramamohanarao, David B. Kemp, Zoltan Somogyi, Peter J. Stuckey, Tim S. Leask, James Harland
April 1994 **The VLDB Journal — The International Journal on Very Large Data Bases,** Volume 3 Issue 2
Full text available: pdf(2.67 MB)   Additional Information: full citation, abstract, references, citings

Deductive databases generalize relational databases by providing support for recursive views and non-atomic data. Aditi is a deductive system based on the client-server model; it is inherently multi-user and capable of exploiting parallelism on shared-memory multiprocessors. The back-end uses relational technology for efficiency in the management of disk-based data and uses optimization algorithms especially developed for the bottom-up evaluation of logical queries involving recursion. The front ...

Keywords: implementation, logic, multi-user, parallelism, relational database

13 Network locality at the scale of processes
Jeffrey C. Mogul
May 1992 **ACM Transactions on Computer Systems (TOCS)**, Volume 10 Issue 2

Full text available: pdf(1.80 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Packets on a LAN can be viewed as a series of references to and from the objects they address. The amount of locality in this reference stream may be critical to the efficiency of network implementations, if the locality can be exploited through caching or scheduling mechanisms. Most previous studies have treated network locality with an addressing granularity of networks or individual hosts. This paper describes some experiments tracing locality at a finer grain, looking at references to i ...

Keywords: context switching, dallying, locality of reference, remote procedure calls

14 Mobility and Wireless Access: Mobile streaming media CDN enabled by dynamic SMIL
Takeshi Yoshimura, Yoshifumi Yonemoto, Tomoyuki Ohya, Minoru Etoh, Susie Wee
May 2002 **Proceedings of the eleventh international conference on World Wide Web**

Full text available: pdf(623.98 KB)   Additional Information: full citation, abstract, references, index terms

In this paper, we present a mobile streaming media CDN (Content Delivery Network) architecture in which content segmentation, request routing, pre-fetch scheduling, and session handoff are controlled by SMIL (Synchronized Multimedia Integrated Language) modification. In this architecture, mobile clients simply follow modified SMIL files downloaded from a streaming portal server; these modifications enable multimedia content to be delivered to the mobile clients from the best surrogates in the CD ...

Keywords: CDN, SMIL, mobile network, streaming media

15 Trading packet headers for packet processing
Girish P. Chandranmenon, George Varghese
April 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 2

Full text available: pdf(1.41 MB)   Additional Information: full citation, references, citings, index terms, review

16 Network locality at the scale of processes
Jeffrey C. Mogul
August 1991 **ACM SIGCOMM Computer Communication Review , Proceedings of the conference on Communications architecture & protocols**, Volume 21 Issue 4
Full text available: Additional Information:

pdf(1.19 MB)   full citation, references, citings, index terms

17 Measuring and characterizing end-to-end Internet service performance
Ludmila Cherkasova, Yun Fu, Wenting Tang, Amin Vahdat
November 2003 **ACM Transactions on Internet Technology (TOIT)**, Volume 3 Issue 4

Full text available: pdf(1.46 MB)   Additional Information: full citation, abstract, references, index terms

Fundamental to the design of reliable, high-performance network services is an
understanding of the performance characteristics of the service as perceived by the client
population as a whole. Understanding and measuring such end-to-end service performance
is a challenging task. Current techniques include periodic sampling of service characteristics
from strategic locations in the network and instrumenting Web pages with code that reports
client-perceived latency back to a performance server. Li ...

Keywords: End-to-end service performance, QoS, network packet traces, passive
monitoring, reconstruction of web page composition, web site performance

18 An efficient and lightweight embedded Web server for Web-based network element
management
Hong-Taek Ju, Mi-Joung Choi, James W. Hong
September 2000 **International Journal of Network Management**, Volume 10 Issue 5

Full text available: pdf(428.26 KB)   Additional Information: full citation, abstract, references, index terms

An Embedded Web Server (EWS) is a Web server which runs on an embedded
system with limited computing resources to serve embedded Web documents to a Web
browser. By embedding a Web server into a network device, it is possible to provide a
Web‐based management user interface, which are user‐friendly,
inexpensive, cross‐platform, and network‐ready. This article explores the
topic of an efficient and lightweight embedded Web server for Web‐based netw ...

19 Optimizing TCP forwarder performance
Oliver Spatscheck, Jørgen S. Hansen, John H. Hartman, Larry L. Peterson
April 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 2

Full text available: pdf(119.23 KB) Additional Information: full citation, references, citings, index terms

Keywords: TCP, firewall, proxy, router

20 Network performance effects of HTTP/1.1, CSS1, and PNG
Henrik Frystyk Nielsen, James Gettys, Anselm Baird-Smith, Eric Prud'hommeaux, Håkon Wium
Lie, Chris Lilley
October 1997 **ACM SIGCOMM Computer Communication Review , Proceedings of the
ACM SIGCOMM '97 conference on Applications, technologies,
architectures, and protocols for computer communication**, Volume 27 Issue 4

Full text available: pdf(1.62 MB)   Additional Information: full citation, abstract, references, citings, index
terms

We describe our investigation of the effect of persistent connections, pipelining and link
level document compression on our client and server HTTP implementations. A simple test
setup is used to verify HTTP/1.1's design and understand HTTP/1.1 implementation
strategies. We present TCP and real time performance data between the libwww robot [27]
and both the W3C's Jigsaw [28] and Apache [29] HTTP servers using HTTP/1.0, HTTP/1.1
with persistent connections, HTTP/1.1 with pipelined requests, and ...

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1 **Automatic bus routing and passenger geocoding with a geographic information system**
Yue-Hong Chou;
Vehicle Navigation and Information Systems Conference, 1995. Proceedings. In conjunction with the Pacific Rim TransTech Conference. 6th International VNIS. 'A Ride into the Future' , 30 July-2 Aug. 1995
Pages:352 - 359

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2 **Tuning of audio, video and data applications over ATM**
Hetzer, D.; Miloucheva, I.; Pickard, W.; Kauschke, U.;
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[Abstract]   [PDF Full-Text (324 KB)]   **IEEE CNF**

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Henderson, T.R.; Katz, R.H.;
Selected Areas in Communications, IEEE Journal on , Volume: 17 , Issue: 2 , Feb. 1999
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5 Size-based adaptive bandwidth allocation: optimizing the average QoS for elastic flows
Shanchieh Yang; de Veciana, G.;
INFOCOM 2002. Twenty-First Annual Joint Conference of the IEEE Computer and Communications Societies. Proceedings. IEEE , Volume: 2 , 23-27 June 2002
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INFOCOM '98. Seventeenth Annual Joint Conference of the IEEE Computer and Communications Societies. Proceedings. IEEE , Volume: 3 , 29 March-2 April 1998
Pages:1222 - 1231 vol.3

[Abstract]   [PDF Full-Text (1368 KB)]   **IEEE CNF**

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8 A proportional-delay DiffServ-enabled Web server: admission control and dynamic adaptation
Lee, S.C.M.; Lui, J.C.S.; Yau, D.K.Y.;
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